

FHWA REGION NO	STATE	FED. AID PROJ. NO	SHEET NO.	TOTAL SHEETS
3	MD.	STPG-218-1(7)E	56	66

EQUIPMENT LISTS

A. EQUIPMENT TO BE SUPPLIED BY THE SHA.

QUANTITY	UNIT	SPECIFICATION SECTION	DESCRIPTION
1	EA	SP	BASE MOUNTED LOCAL CABINET (SIZE 5) LESS DETECTION EQUIPMENT WITH 8 PHASE ASC II CONTROLLER WITH TELEMETRY

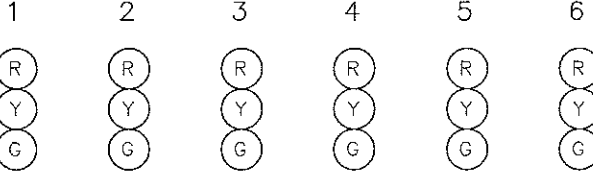
B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.

QUANTITY	UNIT	SPECIFICATION SECTION	DESCRIPTION
1	CY	205	TEST PIT EXCAVATION
4	CY	206	REMOVAL OF EXISTING SIDEWALK
300	SF	610	4 INCH CONCRETE SIDEWALK
1	EA	816	INSTALL CONTROLLER AND CABINET- BASE MOUNT
1	EA	811	FURNISH AND INSTALL ELECTRICAL HANDHOLE
1	LS	SP	REMOVE AND REPLACE CABLE RINGS ON EXISTING SPAN WIRE
1	CY	801	FURNISH AND INSTALL CONCRETE FOR SIGNAL FOUNDATION
10	LF	805	FURNISH AND INSTALL 2" SCHEDULE 80 RIGID PVC CONDUIT-RISER
30	LF	805	FURNISH AND INSTALL 3" SCHEDULE 80 RIGID PVC CONDUIT-RISER
20	LF	805	FURNISH AND INSTALL 2" SCHEDULE 40 RIGID PVC CONDUIT-TRENCHED
10	LF	805	FURNISH AND INSTALL 3" SCHEDULE 40 RIGID PVC CONDUIT-TRENCHED
15	LF	805	FURNISH AND INSTALL 4" SCHEDULE 40 RIGID PVC CONDUIT-TRENCHED
1	EA	807	FURNISH AND INSTALL CONTROL AND DISTRIBUTION EQUIPMENT
1	EA	SP	AS-BUILT FOR TRAFFIC SIGNAL
2	EA	804	FURNISH AND INSTALL GROUND ROD-3/4 INCH DIAMETER X 10-FOOT LENGTH
200	LF	810	FURNISH AND INSTALL NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
200	LF	810	FURNISH AND INSTALL ELECTRICAL CABLE- 1 CONDUCTOR (NO. 4 AWG - THHN/THWN)
200	LF	810	FURNISH AND INSTALL ELECTRICAL CABLE- 5 CONDUCTOR (NO 14 AWG)
150	LF	810	FURNISH AND INSTALL ELECTRICAL CABLE- 7 CONDUCTOR (NO 14 AWG)
1	EA	SP	REMOVE AND DISPOSE OF EXISTING FOUNDATION 12" BELOW GRADE
1	LS	SP	DELIVERY OF SALVAGED EQUIPMENT
1	LS	SP	REMOVE AND DISPOSE OF EXISTING EQUIPMENT
1	LS	SP	REMOVAL OF EXISTING SIGNAL EQUIPMENT TO BE SALVAGED

NOTE: ALL EQUIPMENT AND/OR MATERIALS TO BE REMOVED BY THE CONTRACTOR, BUT
NOT LISTED BELOW, SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

QUANTITY	UNIT	DESCRIPTION
1	EA	CONTROLLER AND CABINET
1	EA	PEDESTAL POLE AND BASE

PHASING DIAGRAM



PHASE 2+6	G	G	G	G	R	R
2+6 CHANGE	Y	Y	Y	Y	R	R
PHASE 4	R	R	R	R	G	G
4 CHANGE	R	R	R	R	Y	Y
FLASHING OPERATION	FL R	FL R	FL R	FL R	FL Y	FL Y

SIGNALS

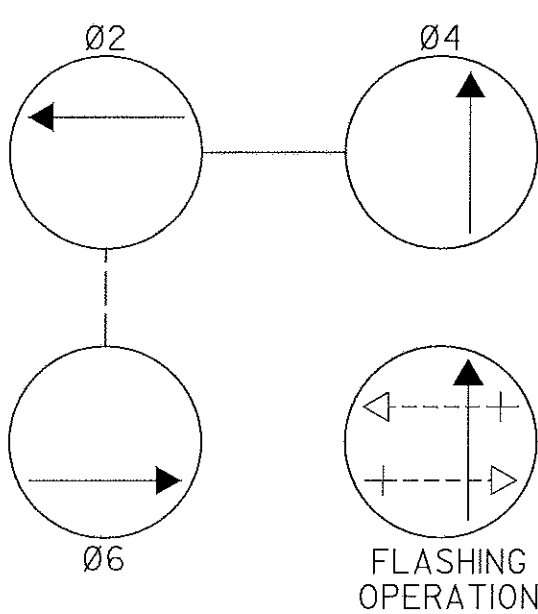
1,2,3,
4,5,6
R
Y
G
12"

SIGNS

7
NO
TURN
ON RED
R10-11b

NOTE: ALL SIGNS AND SIGNALS ARE EXISTING.

NEMA PHASING



PHASING NOTES:

1. PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY
2. PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY

SUMMIT AVE.

W. BALTIMORE ST.

CONSTRUCTION DETAILS

- (A) INSTALL BASE MOUNTED CABINET, SIZE #5, AND CONTROLLER WITH ALL
NECESSARY EQUIPMENT AS SHOWN (NOTE: 2-4", 90-DEGREE P.V.C. BENDS
AND 2-2" 90-DEGREE P.V.C. BENDS).
- (B) INSTALL 2" P.V.C. (SCHEDULE 40) ELECTRICAL CONDUIT (TRENCHED).
- (C) INSTALL 3" P.V.C. (SCHEDULE 40) ELECTRICAL CONDUIT (TRENCHED).
- (D) INSTALL 4" P.V.C. (SCHEDULE 40) ELECTRICAL CONDUIT (TRENCHED).
- (E) INSTALL 3" P.V.C. (SCHEDULE 80) ELECTRICAL CONDUIT - RISER WITH 3" WEATHERHEAD.
- (F) INSTALL HANDHOLE.
- (H) USE EXISTING SIGNAL HEADS.
- (J) USE EXISTING SPAN WIRE. REMOVE AND REPLACE EXISTING CABLE RINGS.
- (S) REMOVE AND REPLACE EXISTING SIDEWALK.
- (T) CONSTRUCT SIDEWALK RAMP.
- (U) REMOVE EXISTING CONTROLLER, CABINET, PEDESTAL POLE AND FOUNDATION.
- (V) INSTALL 10' OF 2" P.V.C. (SCHEDULE 80) ELECTRICAL CONDUIT - RISER AND
COIL 25' OF ADDITIONAL CABLE.

UTILITY LEGEND

— G —	— G —	GAS MAIN
— W —	— W —	WATER MAIN
— S —	— S —	SEWER MAIN
=====		STORM DRAIN
— TV —	— TV —	CABLE TELEVISION
— E —	— E —	ELECTRIC CABLES
— T —	— T —	TELEPHONE CABLES
— A —	— A —	AERIAL CABLES

INTERSECTION DESCRIPTION

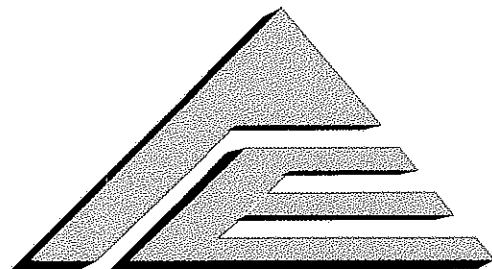
I. GENERAL

THIS INTERSECTION IS SUMMIT AVENUE AND WEST BALTIMORE STREET.
CONSTRUCTION AT THIS INTERSECTION INVOLVES THE REPLACEMENT OF THE
EXISTING TRAFFIC SIGNAL CONTROLLER AND INTERCONNECTION WITH THE
OTHER SIGNALIZED INTERSECTIONS IN THE NEW CITY-WIDE SYSTEM. IT IS
ASSUMED THAT WEST BALTIMORE STREET RUNS IN AN EAST-WEST DIRECTION.

II. INTERSECTION OPERATION

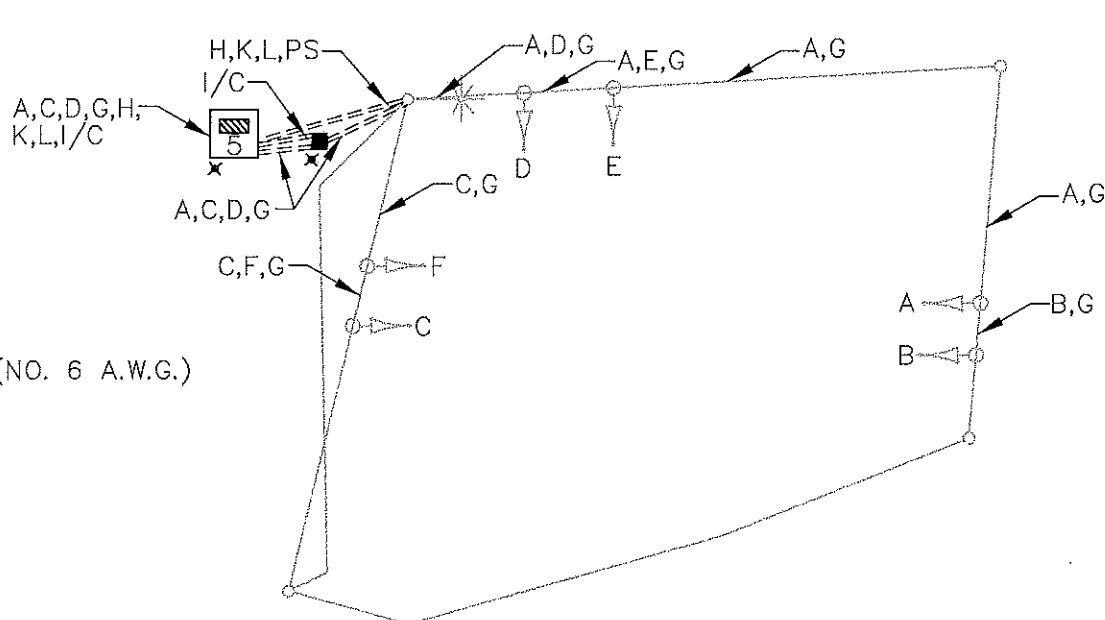
THE INTERSECTION WILL OPERATE IN A NEMA THREE (3) PHASE PRE-TIMED MODE.
EASTBOUND AND WESTBOUND BALTIMORE STREET WILL OPERATE CONCURRENTLY
WITH WESTBOUND BALTIMORE STREET OPERATING IN A LEADING PHASE.
NORTHBOUND SUMMIT AVENUE WILL OPERATE SEPARATELY.

A NEW EIGHT PHASE FULLY ACTUATED CONTROLLER WITH TELEMETRY MODULE
HOUSED IN A GROUND MOUNTED CABINET WILL BE INSTALLED.



A/E GROUP, INC.
ENGINEERS • PLANNERS
181 E. Main Street
Westminster, Maryland 21158
A/E Job No. 96-317

WIRING DIAGRAM



WIRING LEGEND

- A - 7 CONDUCTOR CABLE (NO. 14 A.W.G.)
B - 5 CONDUCTOR CABLE (NO. 14 A.W.G.)
C - 5 CONDUCTOR CABLE (NO. 14 A.W.G.)
D - 5 CONDUCTOR CABLE (NO. 14 A.W.G.)
E - 5 CONDUCTOR CABLE (NO. 14 A.W.G.)
F - 5 CONDUCTOR CABLE (NO. 14 A.W.G.)
G - STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
H - 1 CONDUCTOR CABLE (NO. 4 A.W.G.)
I - 1 CONDUCTOR CABLE (NO. 4 A.W.G.)
J - 1 CONDUCTOR CABLE (NO. 4 A.W.G.)
K - 3/4"x10' GROUND ROD
L - PROPOSED ELECTRICAL SERVICE
I/C - INTERCONNECT CABLE

MDOT - STATE HIGHWAY ADMINISTRATION

Office of Traffic & Safety

TRAFFIC ENGINEERING DESIGN DIVISION

LOG ML 21MSUM0017

DRAWN BY: M. GESELL

DES. BY: J. LAWRENCE

CHK. BY:

**Summit Ave. at
West Baltimore St.**

COUNTY: WASHINGTON

DATE: 05/30/97

SCALE: 1" = 10'

F.A.P. NO.

S.H.A. NO.

CITY NO.

STPG-218-1(7)E

WA9535185

07-243-332

TS

NO.

3717

SHEET NO.

56 OF 66